

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) A folding knife, comprising:
a handle defining a blade cavity and a first end;
a blade having a first end and a second end opposite said first end; said first end of said blade having a blade pivot connected to said first end of said handle for pivotal movement of said blade about said blade pivot between an extended position wherein the blade is outside of said blade cavity and a retracted position wherein the blade is substantially within said blade cavity;
a longitudinally extending plunger carried in said blade cavity having a first end and second end opposite said first end;
a pivotal connector pivotally connected to said handle for pivotally connecting said plunger to said handle, said first end of said plunger being longitudinally slidably carried by said pivotal connector for longitudinal movement of said plunger relative to said pivotal connector as said blade moves between said retracted and extended positions; and
said second end of said plunger being pivotally connected to said first end of said blade for orbital movement about said blade pivot as said blade moves between said retracted and extended positions.

2. (Original) A folding knife as defined in claim 1, wherein said blade includes said first end of said blade having an extension projecting outwardly from said handle when said blade is in said retracted position; said extension defining an extreme edge portion with a plurality of ridges thereon for contact by a user when moving the blade from said retracted position to said extended position.

3. (Original) A folding knife as defined in claim 2, wherein said plurality of ridges are generally saw-tooth-shaped and are generally angled in a direction substantially opposite to the direction said second end of said blade moves when moving from said retracted position to said extended position.

4. (Original) A knife as set forth in claim 1, further comprising a safety member pivotally connected to said handle for movement between a locking position and an unlocking position; said safety member defining an engagement portion projecting into said blade cavity and in the path of movement of said first end of the plunger when said safety member is in said locking position for contacting and restraining movement of said first end of said plunger when said blade is in said extended position, to thereby lock said blade in said extended position.

5. (Original) A knife as defined in claim 1, further comprising said handle defining a first side and a second side opposite said first side and a belt clip connected to said handle adjacent one of said first and second sides of said handle.

6. (Original) A knife as defined in claim 1, wherein said pivotal connector includes a sleeve having a passageway, and wherein said first end of said plunger extends through said passageway such that said first end of said plunger moves substantially rectilinearly in said passageway during said longitudinal movement of said plunger as said blade is moved between said retracted and extended positions.

7. (Original) A folding knife as defined in claim 1, wherein said pivotal connector is a sleeve having diametrically opposed pivot pins attached thereto, said pivot pins pivotally connecting said pivotal connector within said handle.

8. (Original) A folding knife as set forth in claim 1, wherein said second end of said plunger includes a clevis having a pin pivotally connected to said first end of said blade.

9. (Original) A folding knife as defined in claim 1, wherein said first end of said blade includes an arcuate slot and wherein said handle includes a pin carried in said arcuate slot, said arcuate slot having a first end and a second end, and said first end of said arcuate slot limiting said blade from movement beyond said extended position.

10. (Original) A knife as defined in claim 1, further comprising a coil spring encircling said plunger.

11. (Twice Amended) A folding knife, comprising:
a handle defining a blade cavity and a first end;
a blade having a first end and a second end opposite said first end; said first end of said blade having a blade pivot connected to said first end of said handle for pivotal movement of said blade about said blade pivot between an extended position wherein the blade is outside of said blade cavity and a retracted position wherein the blade is substantially within said blade cavity;
a longitudinally extending plunger carried in said blade cavity and having a first end and a second end wherein said second end is opposite said first end;
a pivoting sleeve provided in said handle, said sleeve receiving and longitudinally slidably carrying said first end of said plunger for longitudinal movement of said plunger relative to said sleeve as said blade moves between said retracted and extended positions; and
said second end of said plunger being pivotally connected to said first end of said blade for orbital movement about said blade pivot as said blade moves between said retracted and extended positions.

12. (Currently Amended) A folding knife, comprising:
a handle defining a blade cavity and a first end;
a blade having a first end and a second end opposite said first end; said first end of said blade having a blade pivot connected to said first end of said handle for pivotal movement of said blade about said blade pivot between an extended position wherein the blade

is outside of said blade cavity and a retracted position wherein the blade is substantially within said blade cavity; and

a [longitudinally extending] spring biased plunger assembly configured to provide a spring force to assist to maintain the blade in the extended position while the blade is in the extended position, and a spring force to assist to to retain the blade in the retracted position while the blade is in the retracted position, the plunger assembly having:

a first end slidably and pivotably connected to said handle for longitudinal and/or pivotal movement of said plunger assembly relative to said handle as said blade moves between said retracted and extended positions[, wherein said first end is free from lateral movement relative to said handle, as said blade moves between said retracted and extended positions]; and

a second end opposite said first end, said second end of said plunger assembly pivotally connected to said first end of said blade for orbital movement about said blade pivot as said blade moves between said retracted and extended positions.

13. (Currently Amended) A The knife as defined in claim 12, wherein said blade includes said first end of said blade having an extension projecting outwardly from said handle when said blade is in said retracted position; said extension defining an extreme edge portion with a plurality of ridges thereon for contact by a user when moving the blade from said retracted position to said extended position.

14. (Canceled)

15. (Currently Amended) A folding knife [as defined in claim 12, further] comprising:

a folding knife, comprising:

a handle defining a blade cavity and a first end;

a blade having a first end and a second end opposite said first end; said first end of said blade having a blade pivot connected to said first end of said handle for pivotal

movement of said blade about said blade pivot between an extended position wherein the blade is outside of said blade cavity and a retracted position wherein the blade is substantially within said blade cavity;

a spring biased plunger assembly configured to provide a spring force to assist to maintain the blade in the extended position while the blade is in the extended position, and a spring force to assist to retain the blade in the retracted position while the blade is in the retracted position, the plunger assembly having;

a first end slidably and pivotably connected to said handle for longitudinal and/or pivotal movement of said plunger assembly relative to said handle as said blade moves between said retracted and extended positions; and

a second end opposite said first end, said second end of said plunger assembly pivotally connected to said first end of said blade for orbital movement about said blade pivot as said blade moves between said retracted and extended positions; and

a safety member connected to said handle for movement between a locking position and an unlocking position; said safety member defining an engagement portion projecting into the path of movement of said plunger assembly for contacting said plunger.

16. (New) A knife as defined in claim 12, further comprising said handle defining a first side and a second side opposite said first side and a belt clip connected to said handle adjacent one of said first and second sides of said handle.

17. (Currently Amended) A knife as defined in claim 12, wherein said second end of said plunger assembly includes a clevis having a pin pivotally connected to said first end of said blade.

18. (New) A knife as defined in claim 12, wherein said first end of said blade includes an arcuate slot and wherein said handle includes a pin carried in said arcuate slot, said arcuate slot having a first end and a second end, and said first end of said arcuate slot limiting said blade from movement beyond said extended position.

19. (Currently Amended) A knife as defined in claim 12 wherein the plunger assembly comprises a plunger and [further comprising] a spring operatively interconnecting said plunger to said handle.

20. (New) A knife as defined in claim 19, wherein the spring exerts a pivoting force upon the blade in response to the spring being deformed, the spring being maximally deformed when the blade is pivoted to an intermediate point between the extended position and retracted position, thereby causing the spring to assist opening of the blade when the blade is pivoted from the retracted position toward the extended position beyond the intermediate point.

21. (Currently Amended) A knife as defined in claim 12 wherein the plunger assembly comprises a plunger and [further comprising] a coil spring operatively interconnecting said plunger to said handle.

22. (New) A knife as defined in claim 21, wherein the coil spring encircles said plunger.

23. (Currently Amended) A folding knife, comprising:
a handle defining a blade cavity and a first end;
a blade having a first end and a second end opposite said first end; said first end of said blade having a blade pivot connected to said first end of said handle for pivotal movement of said blade about said blade pivot between an extended position wherein the blade is outside of said blade cavity and a retracted position wherein the blade is substantially within said blade cavity; and

a plunger including a spring, the plunger pivotally connected to the blade at a first end, and operatively coupled to the handle at a second end, the spring being maximally deformed when the blade is pivoted to an intermediate point between the extended position and retracted

position, thereby causing the spring to assist opening of the blade when the blade is pivoted from the retracted position toward the extended position beyond the intermediate point.

24. (New) A knife as defined in claim 23, wherein said blade includes said first end of said blade having an extension projecting outwardly from said handle when said blade is in said retracted position; said extension defining an extreme edge portion with a plurality of ridges thereon for contact by a user when moving the blade from said retracted position to said extended position.

25. (New) A knife as defined in claim 23, further comprising a safety member connected to said handle for movement between a locking position and an unlocking position; said safety member defining an engagement portion projecting into a path of movement of said plunger when said safety member is in said locking position for contacting and restraining movement of said plunger when said blade is in said extended position, to thereby lock said blade in said extended position.

26. (Canceled)

27. (New) A knife as defined in claim 23, further comprising said handle defining a first side and a second side opposite said first side and a belt clip connected to said handle adjacent one of said first and second sides of said handle.

28. (Currently Amended) A knife as defined in claim 23, wherein ~~an~~ the first end of said plunger includes a clevis having a pin pivotally connected to said first end of said blade.

29. (New) A knife as defined in claim 23, wherein said first end of said blade includes an arcuate slot and wherein said handle includes a pin carried in said arcuate slot, said

arcuate slot having a first end and a second end, and said first end of said arcuate slot limiting said blade from movement beyond said extended position.

30-33. (Canceled)

34. (Currently Amended) A folding knife comprising:
a handle;
a blade pivoted on said handle for movement between stowed and deployed
conditions relative to the handle; and

an elongate, force-transmitting biasing spring having an [effective] variable
length, the spring operatively attached [to] between said blade and said handle, where said spring
exhibits both an increase and a decrease in the [effective] length of the spring, as said blade is
moved [generally] from [one of] the stowed condition [and] to the deployed condition, [toward
the other condition, wherein the spring exhibits the decrease in effective length, as said blade is
moved from one of the stowed and the deployed conditions toward an intermediate point
between the stowed and the deployed conditions, followed by the increase in effective length, as
said blade is moved from the intermediate point toward the other condition.]

35. (Canceled)

36. (Currently Amended) The knife of claim 34 wherein the operative
attachment of said spring to said blade comprises ~~further comprising a plunger operatively~~
interconnecting the spring to the blade.

37. (New) A knife as defined in claim 36, further comprising a safety member
connected to said handle for movement between a locking position and an unlocking position;
said safety member defining an engagement portion projecting into the path of movement of said
plunger for contacting said plunger.

38-44. (Canceled)

45. (Currently Amended) A knife comprising:

a handle;

a blade pivotally [held in] coupled to the handle to be moveable about a blade pivot point, such that the blade moves between a stowed position and a deployed position; and a plunger [including a spring, where the plunger is] coupled to between the handle and the blade such that a portion of the plunger remains a fixed distance from the blade pivot point[.]; [and where the spring operates] a spring coupled to the plunger to act on the blade to [maintain] urge the blade [in] into the stowed position when the blade is moved to the stowed position, and operates on the blade to urge the blade toward the deployed position when the blade is moved by an outside force from the stowed position at least partially toward the deployed position.

46-51. (Canceled)

52. (Currently Amended) A folding knife comprising:

a handle;

a blade having a tang end coupled to the handle, the blade configured to rotate, relative to the handle, between a retracted position and an extended position;

biasing means for holding the blade in the retracted position in the handle while the blade is in the retracted position and for biasing the blade toward the extended position relative to the handle when the blade is moved from the retracted position past a point of maximum bias toward the extended position; and

moving means for moving the blade from the retracted position to the extended position with one hand while holding the knife with the same one hand.

53. (Canceled)

54. (New) The folding knife of claim 52 wherein the moving means comprises at least one of a plurality of ridges formed on the tang of the blade, a plurality of directional saw-like teeth formed on the tang of the blade, or a pin coupled to an upper portion of the blade.

55-57. (Canceled)

58. (Currently Amended) A folding knife comprising:
a handle;
a blade having a tang end coupled to the handle, the blade configured to rotate, relative to the handle, through an arc between a retracted position and an extended position when an opening force is applied to the blade;
a contact element on the blade, positioned such that a user, holding the knife in one hand, can apply an opening force to the blade with a finger of the same hand;
a biasing element including a spring;
a first coupling element operatively coupling a first end of the biasing element to the handle; and
a second coupling element operatively coupling a second end of the biasing element to the blade.

59. (New) The knife of claim 58 wherein the biasing element is arranged such that the spring thereof increases in tension to a point of maximum tension as the blade is moved through the arc from the retracted position toward the extended position, then decreases in tension as the blade continues past the point of maximum tension toward the extended position.

60. (New) The knife of claim 58 wherein the contact element comprises at least one of a plurality of ridges formed on the tang of the blade, a plurality of directional saw-like teeth formed on the tang of the blade, or a pin coupled to an upper portion of the blade.

61. (New) The knife of claim 58 wherein the contact element comprises a feature formed on the tang of the blade.

62. (Currently Amended) A folding knife comprising:
a handle;
a blade having a tang end coupled to the handle, the blade configured to rotate, relative to the handle, through an arc between a retracted position and an extended position when an opening force is applied to the blade;
a contact element on the blade, positioned such that a user, holding the knife in one hand, can apply an opening force to the blade with a finger of the same hand;
a biasing element including a spring, configured to apply a closing force to the blade while the blade is in the retracted position;
a first coupling element operatively coupling a first end of the biasing element to the handle; and
a second coupling element operatively coupling a second end of the biasing element to the blade.

63. (New) A folding knife comprising:
a handle;
a blade having a tang end coupled to the handle, the blade configured to rotate, relative to the handle, through an arc between a retracted position and an extended position when an opening force is applied to the blade;
a contact element on the blade, positioned such that a user, holding the knife in one hand, can apply opening force to the blade with a finger of the same hand;

a biasing element including a spring, configured to resist rotation of the blade toward the extended position while the blade is in the retracted position;

a first coupling element operatively coupling a first end of the biasing element to the handle; and

a second coupling element operatively coupling a second end of the biasing element to the blade.

64. (New) A folding knife comprising:

a handle;

a blade having a tang end coupled to the handle, the blade configured to rotate, relative to the handle, through an arc between a retracted position and an extended position when an opening force is applied to the blade;

a contact element on the blade, positioned such that a user, holding the knife in one hand, can apply opening force to the blade with a finger of the same hand;

a biasing element including a spring, configured to apply no opening force to the blade while the blade is in the retracted position;

a first coupling element operatively coupling a first end of the biasing element to the handle; and

a second coupling element operatively coupling a second end of the biasing element to the blade.